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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:) Attorney Docket No. 087522785347
Machael, Jay R. et al.)
Application No.: 10/749,010)
Filed: December 30, 2003)
For: VERTICALLY ADJUSTABLE)
CHAIR ARMREST)
Examiner: D'Adamo, Stephen D.)
Art Unit: 3636)
Confirmation No.: 8394)

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) A vertically adjustable armrest assembly for a chair comprising:

a support connected to said chair and extending generally in a vertical direction, said support having an open top;

a structure connected to the support having a series of vertically aligned openings;

a slide element for supporting an armrest disposed within said support and extending out of said open top thereof, said slide element positioned adjacent said structure with the openings, and said slide having a lateral opening;

a horizontally movable block positioned in said slide element lateral opening, said block for being received selectively in said openings of said structure said block having first and second surfaces;

a rod extending generally parallel to said slide element, said rod having a handle portion at an upper end portion thereof and an engagement ~~a misaligned~~ portion, said

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~~engagement misaligned portion having first and second surfaces, said first surface of said engagement portion for engaging said first surface of said block for moving said block into an opening of said structure having a series of openings and said second surface of said engagement portion for engaging said second surface of said block for moving said block out of an opening of said structure having a series of openings~~ operatively connected to said block for selectively moving said block into and out of openings in said structure; and

a biasing element connected to said rod for biasing said rod to a predetermined position.

Claim 2 (Currently Amended) The vertically adjustable armrest of claim 1 wherein:

said block includes ~~an a slanted opening through said block, said opening formed by said first and said second surfaces; and~~

~~said rod includes a structure for engaging said block through said slanted opening in said block.~~

Claim 3 (Currently Amended) The vertically adjustable armrest of claim 2 wherein:

said rod engaging said first surface of said block when moved downwardly and engaging said second surface of said block when moved upwardly.~~includes front and rear slanted surfaces acting as cams; and~~

~~said block includes front and rear surfaces around said slanted opening for acting as cam followers.~~

Claim 4 (Original) The vertically adjustable armrest of claim 3 wherein:
said first front slanted surface of said block is oppositely disposed from rod
pushes said front second surface of said block to lock said armrest; and

~~said rear slanted surface of said rod pushes said rear surface of said block to
unlock said armrest.~~

Claim 5 (Currently Amended) The vertically adjustable armrest of claim 1
wherein:

said block includes an opening formed by said first and second surfaces; and
said rod engaging said first surface of said block when moved in a first direction
and engaging said second surface of said block when moved in a second direction ~~an opening for~~
~~receiving said rod therethrough.~~

Claim 6 (Currently Amended) The vertically adjustable armrest of claim 5
wherein:

said first surface of said block is oppositely disposed from said second surface of
said block ~~block opening is slanted;~~

~~said misaligned portion of said rod includes a slanted surface acting as a cam~~
~~against a cam follower surface formed around said block opening.~~

Claim 7 (Currently Amended) The vertically adjustable armrest of claim 6
wherein:

said first and said second surfaces of said block are slanted and parallel to each
other ~~slide element includes a vertically oriented slot for accommodating said misaligned portion~~
~~of said rod.~~

Claim 8 (Original) The vertically adjustable armrest of claim 2 wherein:

said slide element includes a longitudinal slot for guiding said rod.

Claim 9 (Currently Amended) The vertically adjustable armrest of claim 1
wherein:

said lateral opening of said slide is a guide for said block when said block moves into and out of one of said series of aligned openings ~~an opening~~ in said ~~structure~~ plate.

Claim 10 (Original) The vertically adjustable armrest of claim 1 wherein:

said biasing element is a spring located between said rod and said slide element.

Claim 11 (Currently Amended) The vertically adjustable armrest of claim 1 wherein:

said support engages and guides ~~is a guide for~~ said slide element.

Claim 12 (Currently Amended) The vertically adjustable armrest of claim 1 wherein:

said slide element includes an upper generally horizontal base with an opening;
and

said rod includes an upper arm for riding in said opening of said upper base.

Claim 13 (Original) The vertically adjustable armrest of claim 1 wherein:

said structure is a plate;

said plate includes a cylindrical projection; and

said support includes an opening for receiving said cylindrical projection.

Claim 14 (Original) The vertically adjustable armrest of claim 4 wherein:

said slide element includes a longitudinal slot for guiding said rod.

Claim 15 (Original) The vertically adjustable armrest of claim 14 wherein:

said lateral opening of said slide is a guide for said block when said block moves into and out of an opening in said plate.

Claim 16 (Original) The vertically adjustable armrest of claim 15 wherein:

said support is a guide for said slide element.

Claim 17 (Original) The vertically adjustable armrest of claim 4 wherein:

said structure is a plate;

said plate includes a cylindrical projection; and

said support includes an opening for receiving said cylindrical projection.

Claim 18 (Original) The vertically adjustable armrest of claim 17 wherein:

said slide includes an upper base with an opening; and

said rod includes an upper arm for riding in said opening of said upper base.

Claim 19 (Original) The vertically adjustable armrest of claim 18 wherein:

said support is a guide for said slide element.

Claim 20 (Original) The vertically adjustable armrest of claim 19 wherein:

said slide element includes a longitudinal slot for guiding said rod; and

said lateral opening of said slide is a guide for said block when said block moves into and out of an opening in said plate

Claim 21 (Currently Amended) A vertically adjustable armrest assembly for a chair comprising:

a vertically movable slide element having an upper portion for mounting a horizontally adjustable armrest assembly, said slide element having an opening;

a horizontally slidable block mounted in said opening of said vertically movable slide element, said block having an a-slanted opening with a first slanted surface and a second slanted surface;

an elongated rod having an operating handle and a first cam-surface and a second surface, said first and second cam-surfaces ~~surface~~-being mounted in said opening of said block wherein upward vertical movement of said rod causes said second surface of said rod to engage

said second slanted surface of said block to move said block to an unlocking position and
wherein downward vertical movement of said rod causes said first surface of said rod to engage
said first slanted surface of said block to move said to a locking position; ~~horizontal sliding~~
~~movement of said block;~~

a spring for biasing said rod to a predetermined position;

a plate having vertically aligned openings, each opening for selectively receiving
said block into a locking position; and

a structure for supporting said vertically movable slide element, said block, said
rod, said spring and said plate.

Claim 22 (Original) The vertically adjustable armrest of claim 21 including:

first and second horizontal slide elements mounted to said upper portion of said
vertically movable slide element.

Claim 23 (Currently Amended) The vertically adjustable armrest of claim 21 ~~22~~
wherein:

said surfaces of said rod ~~cam surface is~~ are slanted; and

~~said block includes a slanted surface bordering said slanted opening.~~

Claim 24 (Currently Amended) The vertically adjustable armrest of claim 21 ~~23~~
wherein:

said spring is mounted between said rod and said vertically movable slide
element.

Claim 25 (Currently Amended) The vertically adjustable armrest of claim 21 ~~24~~
wherein:

said vertically movable slide element includes an elongated guide slot for said rod.

Claim 26 (Currently Amended) The vertically adjustable armrest of claim 21 ~~25~~ wherein:

said vertically movable slide element includes a slot for said spring.

Claim 27 (Currently Amended) The vertically adjustable armrest of claim 21 ~~26~~ wherein:

said opening of said vertically movable slide element has a cross shaped front shape.

Claim 28 (Currently Amended) The vertically adjustable armrest of claim 21 ~~27~~ wherein:

said opening of said vertically movable slide element has an inverted "T" shaped rear-shape.

Claim 29 (New) The vertically adjustable armrest of claim 21 wherein:
said surfaces of said rod are slanted;
said vertically movable slide element includes an elongated guide slot for said rod; and

said vertically movable slide element includes a slot for said spring.

Claim 30 (New) The vertically adjustable armrest of claim 29 wherein:
said opening of said vertically shaped slide element has a cross shaped front and an inverted "T" shaped rear.

Claim 31 (New) The vertically adjustable armrest of claim 21 wherein:
said plate biases said slide element.

Claim 32 (New) The vertically adjustable armrest of claim 21 wherein:

said rod includes a head portion and said slide element includes a base with an opening for receiving said head portion.